

**7.7.5 Efficiency Standards for Medium Base Compact Fluorescent Lamps (1)**

<b><u>Factor</u></b>	<b><u>Requirements</u></b>
<b><u>Lamp Power (W) &amp; Configuration</u></b>	<b><u>Minimum Efficacy: lumens/watt (based upon initial lumen data)</u></b>
<i>Bare Lamp:</i>	
Lamp Power < 15	45.0
Lamp Power ≥ 15	60.0
<i>Covered Lamp (no reflector):</i>	
Lamp Power < 15	40.0
15 ≤ Lamp Power < 19	48.0
19 ≤ Lamp Power < 25	50.0
25 ≤ Lamp Power	55.0
<b><u>1,000-hour Lumen Maintenance</u></b>	The average of at least 5 lamps must be a minimum 90.0% of initial (100-hour) lumen output @ 1,000 hours of rated life.
<b><u>Lumen Maintenance\</u></b>	80.0% of initial (100-hour) rating at 40 percent of rated life (per ANSI C78.5 Clause 4.10).
<b><u>Rapid Cycle Stress Test</u></b>	Per ANSI 78.5 and IESNA LM-65 (clauses 2, 3, 5, and 6). Exception: Cycle times must be 5 minutes on, 5 minutes off. Lamp will be cycled once for every two hours of rated life. At least 5 lamps must meet or exceed the minimum number of cycles.
<b><u>Average Rated Lamp Life</u></b>	≥ 6,000 hours as declared by the manufacturer on packaging. At 80% of rated life, statistical methods may be used to confirm lifetime claims based on sampling

Note(s): 1) Effective for products manufactured on or after January 1, 2006.

Source(s): Title 10, Code of Federal Regulations, Part 430 - Energy Conservation Program for Consumer Products, Subpart C - Energy and Water Conservation Standards and Their Effective Dates. January 1, 2010.